

VIRGINIA STANDARDS OF LEARNING

Spring 2004 Released Test

GRADE 3
Science

LARGE PRINT FORM

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DIRECTIONS

Read each question carefully and choose the best answer.

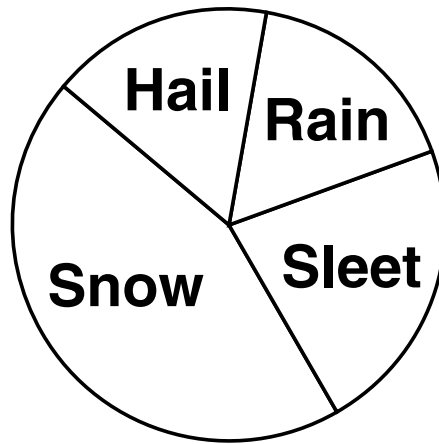
SAMPLE A

When the Earth is seen from outer space, it looks mainly blue. This is because most of the Earth is covered with

- A ice**
- B mountains**
- C oceans**
- D deserts**

1

Type of Precipitation in Hillston



According to the graph, which type of precipitation does the city of Hillston have most often?

- A Hail
- B Rain
- C Sleet
- D Snow

2 Plucking the string on a guitar creates what kind of motion in the string?

F Circular

G Rolling

H Vibration

J Sliding

3 Which of these shows that oil will not mix with water?

A Oil does not come down with rainwater.

B The oil will burn but the water will not.

C Oil is sticky and black, while water is clear and wet.

D After stirring oil and water, the oil floats to the top of the water.

4 Which of these can a tree live without?

F Air

G Water

H Birds

J Light

5

Title: Group A

Jelly Fish
Whale
Star Fish

Title: Group B

Lion
Cow
Butterfly

Which of these titles would be best for Box A and Box B?

- A Edible and Non-edible**
- B Water Homes and Land Homes**
- C Wild and Tame**
- D Not Alive and Alive**

6 Which of these will cause an animal to hibernate?

F Heavy rains

G Cloudy skies

H Cold weather

J Longer days

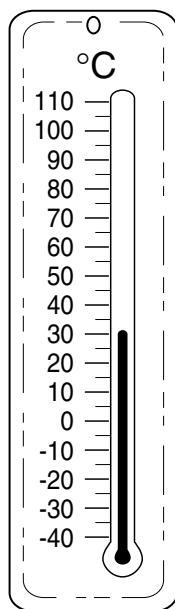
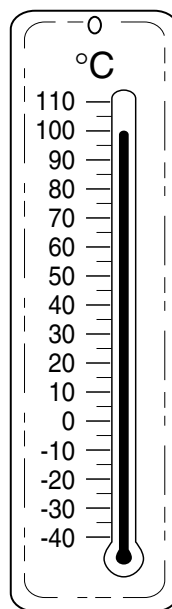
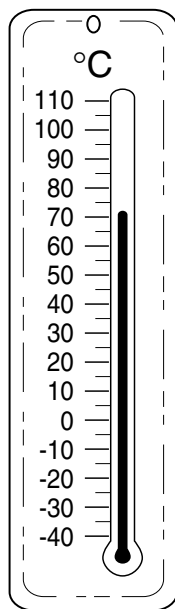
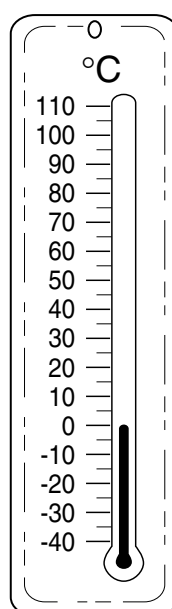
7 Which of these may cause the most dangerous water pollution?

A Rotting forest leaves

B Insects that live in water

C Oil runoff from highways

D Large meat-eating fish

**A****C****B****D**

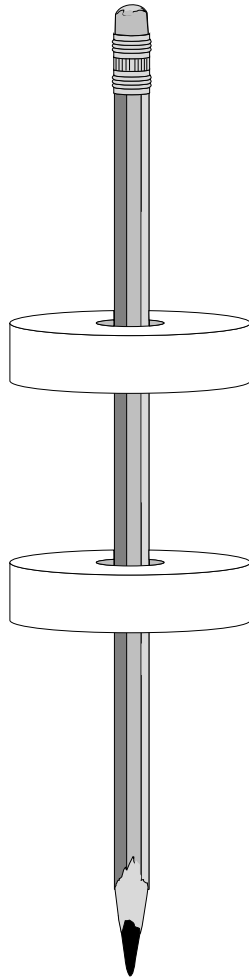
Water boils at 100°C. Which thermometer shows the temperature of boiling water?

F A

G B

H C

J D



The picture shows some ring magnets on a pencil. A student pushed the magnets together, but they came apart as soon as the student let go. The magnets stay apart from each other because the

- A magnets are too weak to stay together**
- B materials that make up the magnets are not magnetic**
- C same poles of the magnets are facing each other**
- D pencil stops the force of the magnets**

10 A glass of ice water on a hot summer day has drops of water on the outside. Where did the drops of water come from?

F Water melted through the glass.

G Water condensed from the air.

H Water expanded inside the glass.

J Water was magnetized from the air.

11 Which of these takes place when water changes from a liquid to a gas?

A Condensation

B Evaporation

C Melting

D Contracting

12 What part of an apple tree becomes the fruit?

F The roots

G The stems

H The leaves

J The flower

13 Which type of weather is most likely to cause flooding?

A Wind

B Snowstorm

C Hurricane

D Fog

14 A class was studying the weather that occurs in their community. Which of these is something they should record in their weather charts?

F The size of the sun

G The phases of the moon

H The amount of rainfall

J The speed of evaporation

15 The weather is part of the daily news. Tracking the weather is most important for people who

A work in banks

B sell televisions

C plant crops

D use computers

16 Like some birds, monarch butterflies fly to Mexico for the winter. They survive the winter by

F migrating

G hibernating

H camouflaging themselves

J adapting to the snow and ice

17 Water trapped inside the cracks of rocks may freeze during the winter. This can cause

A earthquakes to occur

B rocks to break apart

C diamonds to form

D volcanic rocks to form

18

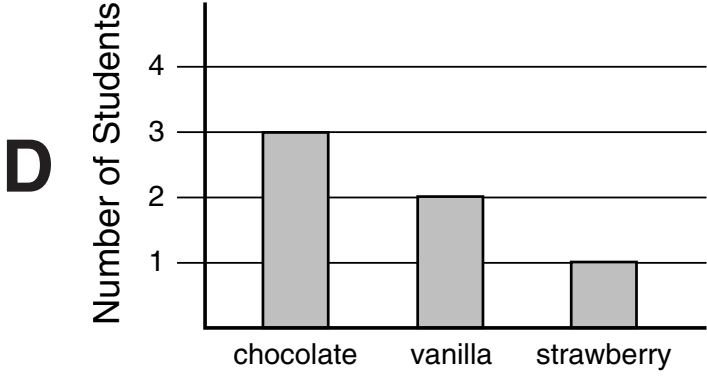
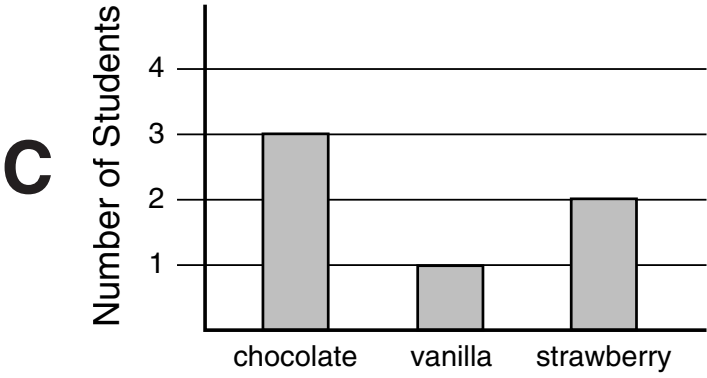
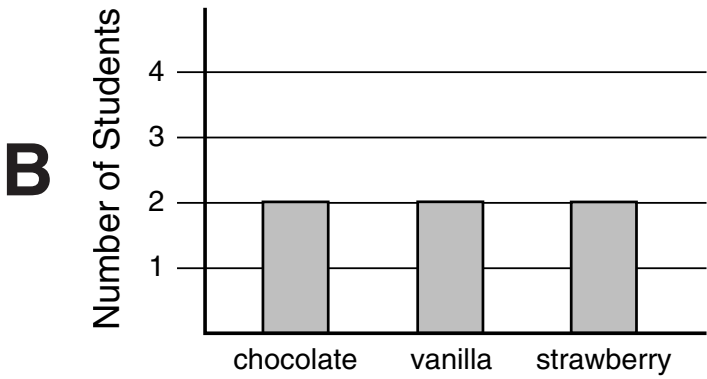
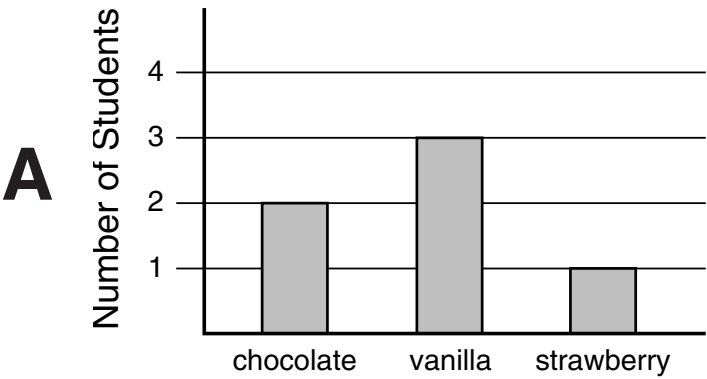
Products
Paper
Cotton
Sugar

The products listed come from the same type of source. This source is

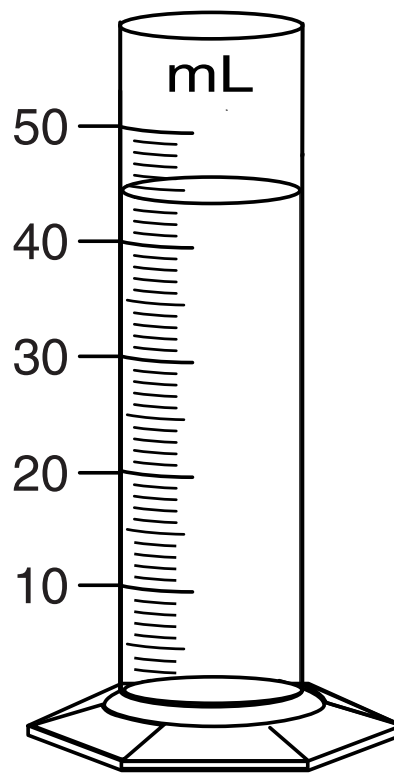
- F water
- G plants
- H rocks
- J animals

Student	Favorite Flavor
Joe	chocolate
Juan	vanilla
Jim	chocolate
Rose	strawberry
Sue	chocolate
Kim	vanilla

Which graph best represents the data above?



20



What is the volume of salt water in this cylinder?

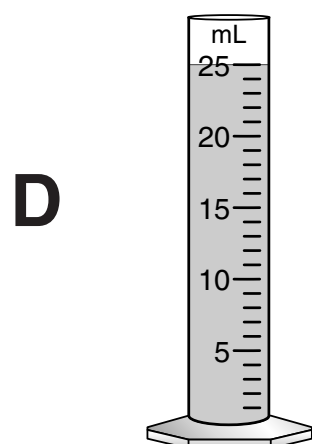
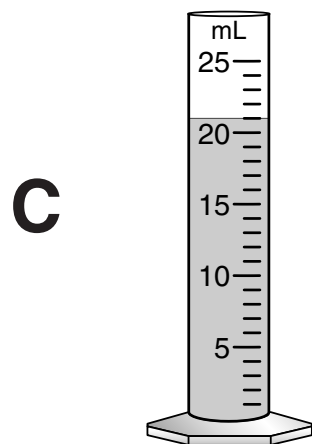
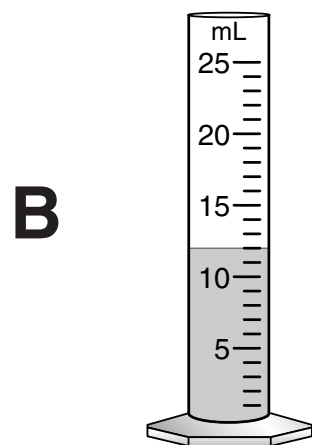
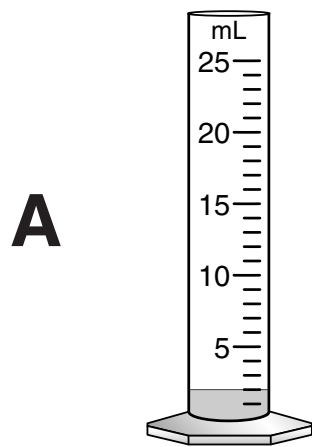
F 40 mL

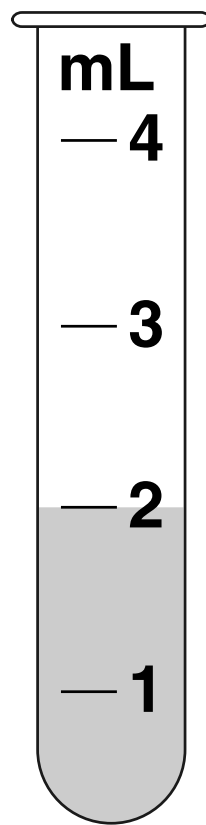
G 41 mL

H 44 mL

J 50 mL

21 Emma needs to measure 12 milliliters of water for her experiment. Which cylinder shows how much water she should use?





What is the volume of water in the tube?

- F 2.0 milliliters**
- G 2.2 milliliters**
- H 20 milliliters**
- J 25 milliliters**

START



FINISH



A student was timing his turtle for the turtle races. The pictures show the clocks at the start and finish of a practice race. How many minutes did it take the student's turtle to finish the race?

- A 2 minutes
- B 5 minutes
- C 7 minutes
- D 12 minutes

24 Which one of these would be BEST to use to move a box out of a truck?

F A pulley

G A lever

H A wheel and axle

J An inclined plane

25 What changes when you take a piece of pie from a pan?

A The taste of the pie

B The color of the pie

C The smell of the pie

D The shape of the pie

26 The Coral Snake is poisonous.

The Scarlet King Snake is not poisonous.

The advantage in the Scarlet King Snake looking like the Coral Snake is that

F it is attractive to other animals

G animals will be afraid of it

H it will be able to find other king snakes

J it can have the coral snake take care of its babies

27 Which of these is a decomposer?

A Mouse

B Mushroom

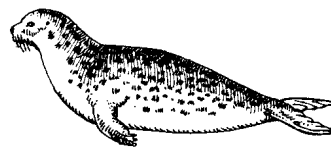
C Tree

D Fox

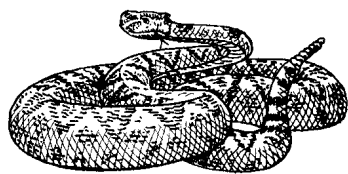
28 Which of these does NOT live in the same place as the others?



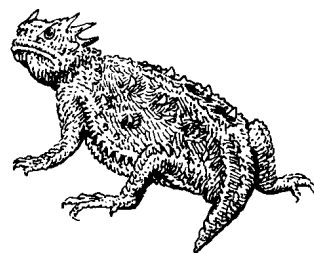
F



H



G



J

29 The roots of a desert plant are close to the surface of the ground. This helps the plant

- A stay warm**
- B get more air**
- C make food more quickly**
- D take in rainwater quickly**



What type of animals would be found in this environment?

- F Forest animals**
- G Grassland animals**
- H Rain forest animals**
- J Pond animals**

31 Soil helps trees because soil

- A makes food for the trees**
- B gives nutrients to the trees**
- C turns the roots into new trees**
- D moves the tree seeds to new places**

32 In which Earth layer do most grasses grow?

- F Solid rock**
- G Topsoil**
- H Subsoil**
- J Bedrock**

33 Humus, silt, clay, and sand are all parts of

A soil

B fungi

C rocks

D plants

34 The Earth makes one complete spin around its axis, turning us toward the sun and away again. How long does it take the Earth to make one complete spin?

F 8 hours

G 12 hours

H 24 hours

J 48 hours

35 There would be no water cycle if the

- A moon was smaller**
- B Earth turned slower**
- C wind stopped blowing**
- D sun stopped shining**

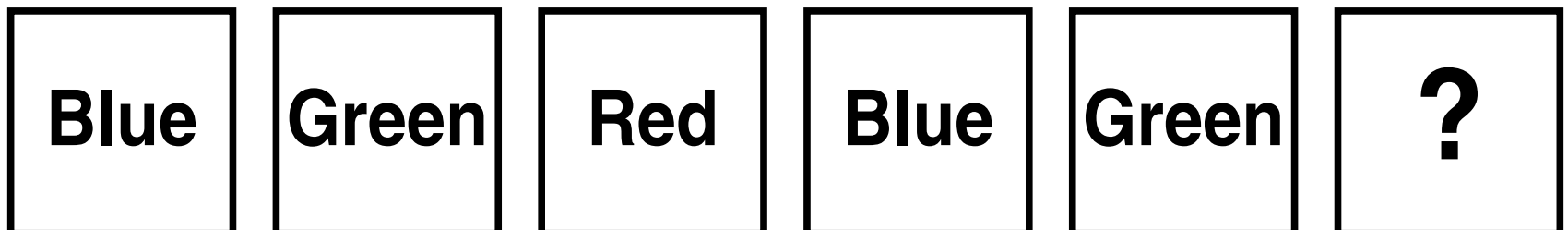
36 Where does most household water for people living in Virginia come from?

- F The ocean**
- G Melting glaciers**
- H Lakes and wells**
- J Bays and marshes**

37 Which of these carries away the most soil?

- A Fires**
- B Floods**
- C Earthquakes**
- D Volcanoes**

38



Which block will finish the pattern?

- F Blue**
- G Green**
- H Red**
- J Yellow**

39 Some screwdrivers can pick up a screw just by touching it. What causes the screw to be attracted to the screwdriver?

- A Electricity**
- B Gravity**
- C Magnetism**
- D Heat**

40 Which of these will most likely float on water?

- F A ball of clay**
- G A block of pine wood**
- H A nickel**
- J A nail**

Answer Key

Test Sequence Number	Correct Answer
1	D
2	H
3	D
4	H
5	B
6	H
7	C
8	H
9	C
10	G
11	B
12	J
13	C
14	H
15	C
16	F
17	B
18	G
19	D
20	H
21	B
22	F
23	C
24	J
25	D
26	G
27	B
28	H
29	D
30	G
31	B
32	G
33	A
34	H
35	D
36	H
37	B
38	H
39	C
40	G